Type: JCB - 1

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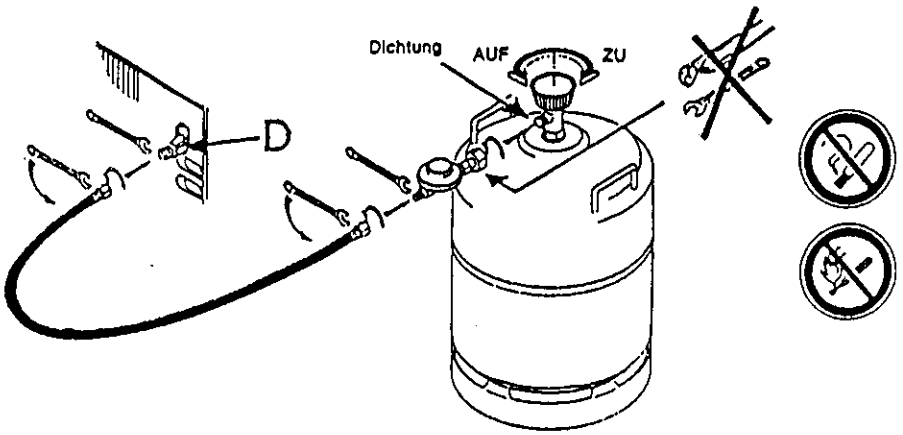

Fig. 2

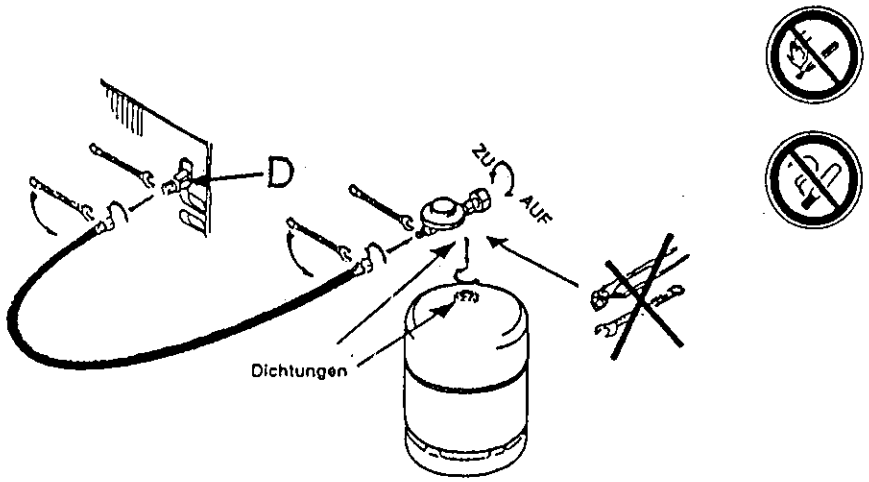

Fig. 3

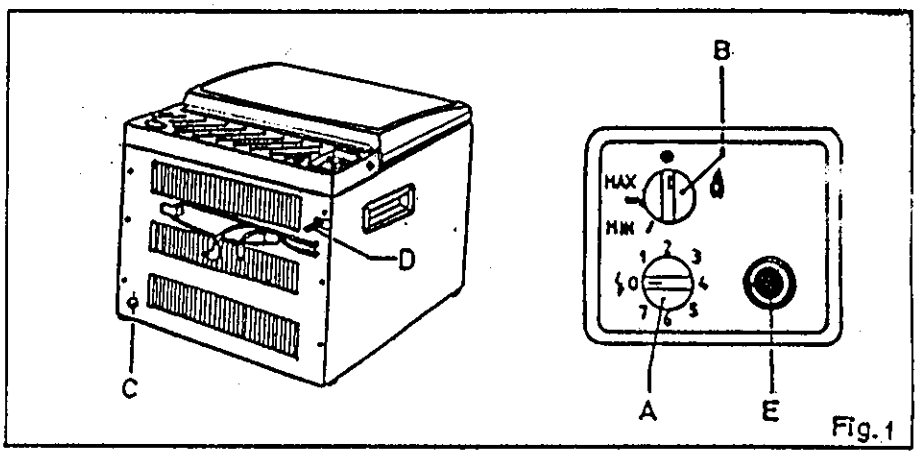

Fig. 1

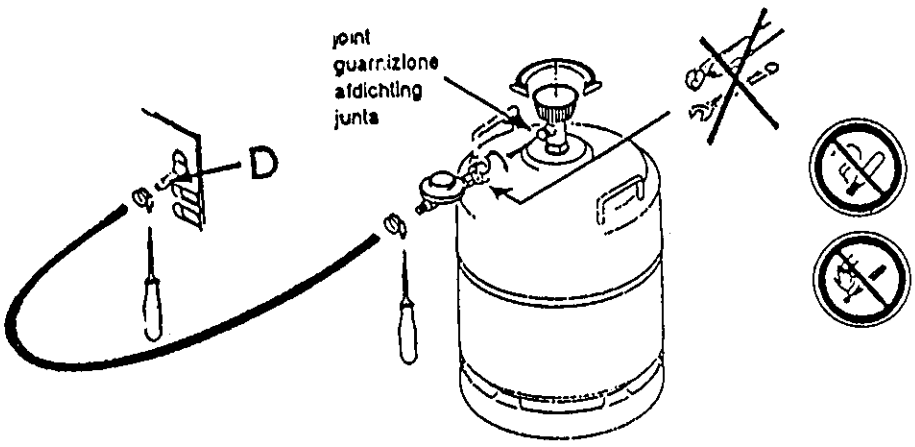
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Fig. 4

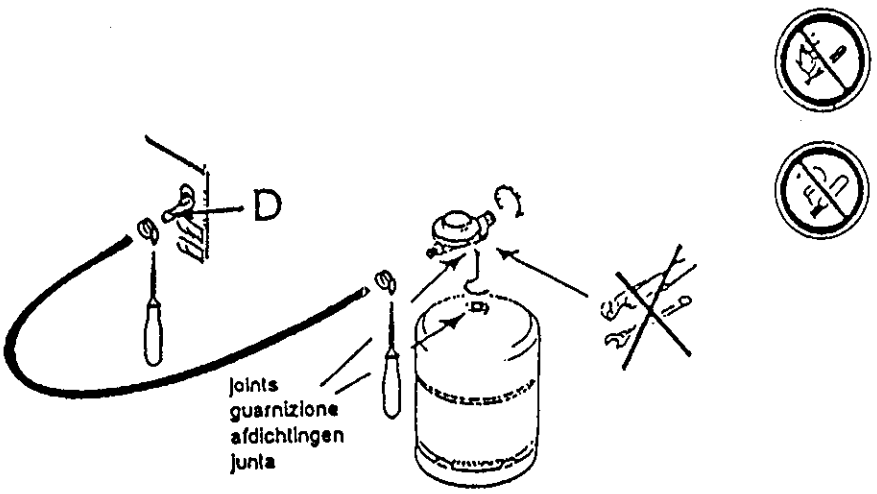
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Fig. 5

Dear customer,
please read the instruction book and all additional information before using the appliance. It is most important that they should be retained with the appliance for future reference!

1. Warnings and directions

These warnings are provided in the interest of safety. You must read them carefully before installing or using the appliance!

- This product is designed to be operated by adults. Children should not be allowed to tamper with the controls or play with the product.
- Any electrical work required to install this appliance should be carried out by a qualified electrician.
- It is dangerous to alter the specifications or modify this product in any way.
- The absorption refrigerator is designed to be used specifically for the storage of edible foodstuffs and drinks only.
- There are working parts in this product which heat up. Always ensure that there is adequate ventilation as a failure to do this will result in component failure and possible food loss (refer to relevant instructions for unit installation under point 4.).
- Before defrosting, cleaning or maintenance work is carried out, be sure to switch off the appliance and unplug it. Shut down gas operation!
- Manufacturers' food storage recommendations should be strictly adhered to. Refer to relevant instructions for food and drink storage under point 13.
- Under no circumstances should you attempt to repair the appliance yourself. Repairs carried out by inexperienced persons may cause injury or more serious malfunctioning. This product should be serviced by an authorised Service Engineer, and only genuine spare parts should be used.

2. Area of use

The cooling unit must not be installed in motor vehicles and boats when using the gas operation method!

Operation using liquid gas in enclosed spaces in not permitted!

THIS COOLING UNIT MAY ONLY BE USED WITH GAS OUT OF DOORS!

Outdoor use includes tents (awnings) which are well ventilated throughout unit operation and flat garden terraces.

There are no restrictions on electrical operation.

Site of operation must be protected from rain and other water sources.

3. Storage of gas cylinders

Liquid gas cylinders should never be stored in unventilated areas or below ground (funnel-shaped holes). Avoid direct sunlight. The gas cylinder should not be exposed to temperatures in excess of 50° C.

4. Installation

To be installed horizontally on a smooth, firm or any other appropriate surface. If necessary, adjust/align using a spirit level or a water-filled vessel.

There should be a distance of at least 10 cm between the back of the unit and any other object (wall).

Avoid placing unit in direct sunlight and next to other sources of heat.

For good air circulation the air vents on the top and under sides, as well as at the back of the cooling unit must not be obstructed.

This will result in a good, energy-saving cooling system.

5. Cleaning

Prior to initial use and later after defrosting, or prior to a prolonged period out of operation, clean the container and lid with luke-warm water and, if necessary, washing-up liquid. **Warning: do not inadvertently press or force the opened door past its stop-point (this could cause the hinges to break). Never use scouring or corrosive agents to clean the unit.** Wipe cleaned surfaces dry with a soft cloth.

6. A/C operation

Do not use any additional form of energy (batteries/gas).

Check that the supply voltage corresponds with the line-voltage data on the type-plate (see back of unit).

(The following instructions refer in the main to coolers manufactured for the United Kingdom).

The mains lead of your refrigerator is fitted with a non-rewirable moulded-on 13 amp plug containing a 3 amp fuse. It is a regular earthed plug for connection to a regular earthed socket.

Due to the difference in the plugs used, an adapter will be necessary for other countries.

If the fuse requires replacing at any time, the fuse cover/carrier should be removed using a small screwdriver to lever it out. The old fuse should be replaced by a 3 amp ASTA approved BS 1362 fuse and the fuse cover/carrier must be refitted before the plug is used again.

If the fuse cover/carrier is lost, a replacement can be obtained from the service shops. The fuse cover/carrier must be of the same colour as that of the coloured insert in the base of the plug. In no circumstances must the plug be used without a correct fuse cover/carrier fitted.

If the plug supplied on the mains lead is not suitable for the socket in your home, it should be cut off and disposed of safely, or destroyed, to avoid any possible shock hazard resulting from the plug being inserted into a 13 amp socket elsewhere in the house. A suitable replacement plug should then be fitted as given below.

General guide to fitting any plug

Ensure the lengths of wire inside the plug are prepared correctly. Connections should be firmly made after all conductor strands are entered into the terminal posts. When preparing the cable ends take care not to damage the outer sheath, or the insulation surrounding the inner conductors. Tighten all screws. Replace the top cover of the plug and secure.

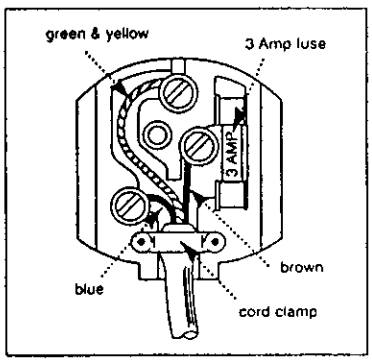
Other versions

Your refrigerator has a 3-wire mains lead which is intended for connection to a 3-pin plug and a properly earthed socket outlet.

IMPORTANT: The wires in the mains lead of this appliance are coloured in accordance with the following code:

GREEN-AND-YELLOW: EARTH BLUE: NEUTRAL BROWN: LIVE

As the colours of the wires in the mains lead may not correspond with the coloured markings identifiying the terminals in your plug, proceed as follows: the wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol ⏚ or coloured green or green-and-yellow. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured red.



WARNING – THIS APPLIANCE MUST BE EARTHED!

If a 13 amps (B.S. 1363) fused-plug is used, it should be fitted with a 3 amp fuse. In other cases, the circuit to which the refrigerator is connected should be fitted with a 5 amp fuse.

To turn on (Fig. 1)

- Turn thermostat knob (A) clockwise to position 7/MAX. Only after approximately 1 hour will the unit become noticably cool (frost on evaporator).
- The temperature can be regulated using the thermostat knob: '0'=off, 1–7 increasing degrees of coolness.
- After sufficient cooling (approximately 5 hours), the thermostat position can be set to a lower temperature, between 2–5. The thermostat will now automatically regulate the set temperature.

To turn off (Fig. 1)

- Turn thermostat knob (A) anticlockwise to position '0' (a slight resistance will be felt just before this position).
- Pull out mains plug.

7. D/C operation

Do not use any additional form of energy (mains/gas). A safety fuse must be installed in the electricity supply between battery and refrigerator in a duct.

12 V: maximum 15 amps; 24 V: maximum 7.5 amps.

Cable cross section		max. cable lengths 12 V	24 V
2.5 mm²	until	2.5 m	5 m
4.0 mm²	until	4.0 m	8 m
6.0 mm²	until	6.0 m	12 m

It is not necessary to consider the polarity when connecting the unit. Check that the battery voltage corresponds with the line-voltage data on the cooling unit type-plate. If no battery is used independently of the vehicle, the cooling unit is only to be used when the vehicle is in motion, since, when the engine is not running, the battery can discharge to such an extent that the engine will not restart.

Recommendation: Before a journey, pre-cool the unit using the supply voltage.

To turn on

The car plug fitted to the connecting cable is to be plugged into the socket/cigar lighter (car plugs are not supplied with every model).

When using battery operation, the cooling performance is not thermostatically regulated, i.e. knob (A) is ineffective.

When knob (A) is ineffective or if the temperature is unnecessarily too low:

Turn off unit

Pull out plug from socket.

8. Liquid gas operation

Do not use any additional form of energy (mains/battery). The unit must not be connected to town or natural gas pipelines. It is only suitable for use with propane/butane gas (e.g. Calor Gas, Camping Gaz, Caravangas, etc).

The specified gas-connection pressure is given in mbar on the type plate (see back of appliance). It is important that a non adjustable pressure-regulator is used to reduce the pressure in the gas cylinder to the operating pressure specified on the rating-plate, no other pressure may be used.

Needle valve operated gas control taps are NOT suitable for use with this appliance and must not be used as a substitute for a pressure regulator.

9. Connecting the cooling unit to the gas cylinder

(The following instructions refer in the main to coolers manufactured for the United Kingdom. For other countries please refer to your supplier).

Always connect in the following sequence:

GAS BOTTLE → PRESSURE-REGULATOR → APPLIANCE.

To connect the appliance to the pressure-regulator SUREFLEX ARMOURED FLEXIBLE PIPE should be used. This can be ordered through CALOR GAS dealers, caravan accessory shops, or direct from the manufacturer, The Lunken Co. Ltd.

When ordering the Sureflex Pipe, it must be specified which type of connector is required at each end:

a) if the pressure-regulator outlet has a 3/8" B.S.P. female thread, the pipe must have a 3/8" B.S.P. male thread at one end;

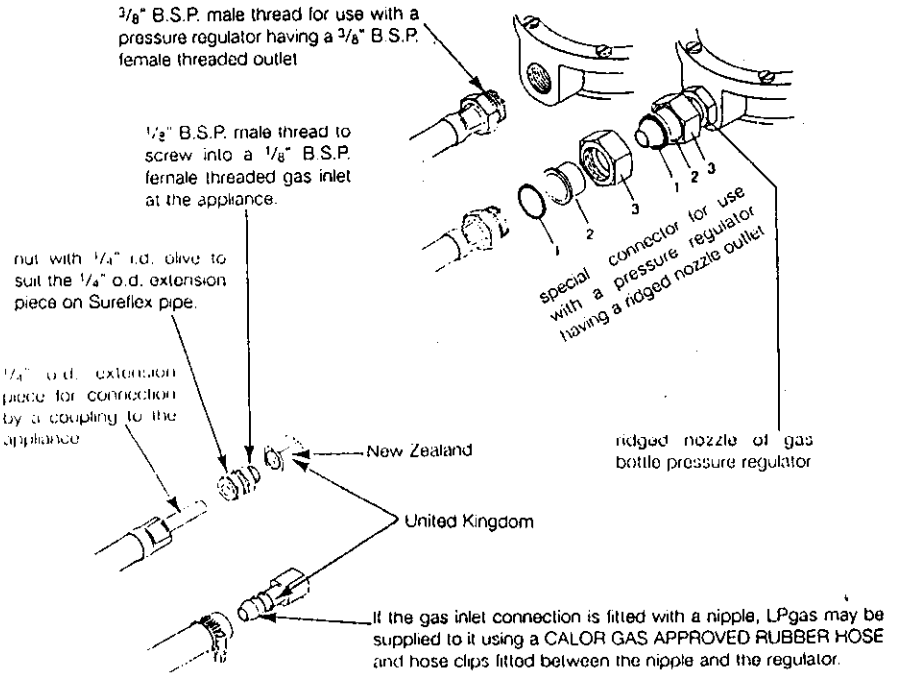
b) if the pressure-regulator has a ridged nozzle outlet instead of a thread, the pipe must have a special connector at one end.

To connect this to the pressure-regulator, first unscrew the nut (3) and place it tgether with the sleeve (2) onto the nozzle of the regulator. The shouldered end of the sleeve should face away from the regulator! Remove the rubber '0'ring (1) and push it over the end of the nozzle so that it

locates in the first corrugation. Push the threaded end ot the Sureflex Pipe against the end of the nozzle, then screw up the nut, tightening the assembly with spanners to make a gas-tight joint.

In both of the above instances, the other end of the Sureflex Pipe should terminate in a ¼" o.d. extension piece. In order to connect this to a ⅛" B.S.P. female threaded gas inlet of the appliance a coupling which has a ⅛" B.S.P. male thread at one end and a nut and ¼" olive connection at the other end to suit the ¼" o.d. extension piece (such as manufactured by Wade Couplings Ltd. under their part number 4063/1 is needed.

When fitting the connection to the gas inlet of the appliance by applying a fork-spanner, hold counterpart to avoid straining and possibly damaging.


3/8" B.S.P. male thread for use with a pressure regulator having a 3/8" B.S.P. female threaded outlet
1/8" B.S.P. male thread to screw into a 1/8" B.S.P. female threaded gas inlet at the appliance.
nut with 1/4" o.d. olive to suit the 1/4" o.d. extension piece on Sureflex pipe.
1/4" o.d. extension piece for connection by a coupling to the appliance
New Zealand
United Kingdom
1 2 3
1 2 3
special connector for use with a pressure regulator having a ridged nozzle outlet
ridged nozzle of gas bottle pressure regulator
If the gas inlet connection is fitted with a nipple, LPgas may be supplied to it using a CALOR GAS APPROVED RUBBER HOSE and hose clips fitted between the nipple and the regulator.

(For other countries please refer to your supplier)

The gas bottle must only be used in an upright position and particular care must be taken every time the appliance is connected to the gas bottle to ensure that there are no leaks, that the gas pipe (rubber hose) is not under tension or kinked, and that it is not in contact with hot surfaces.

The connection pipe and gas bottle should always be located in positions where they will not be tripped over or otherwise inadvertently disturbed.

Before attempting to light the burner, every time after connection, turn on the gas at the bottle and check the gas connections for leaks by applying a soap and water solution over them and watching for bubbles, which would indicate a leak.

For your safety

Do not check for leaks with a naked flame!

Do not smoke while checking for leaks!

10. Gas equipment system (Fig. 1)

This consists of a control knob (B) with built-in safety pilot, a burner with igniter plug and a piezo-gas igniter (E).

The control knob has 3 positions:

MAX:	high cooling capacity,
MIN:	low cooling capacity,
●	off-position = gas supply to burner is shut off.

Remark: cooling boxes for the United Kingdom are fitted with a multiple regulator-unit which has only two positions: MAX an MIN. There is no position CLOSED.

If, for any reason the gas flame extinguishes the ignition control is working automatically and shuts off gas supply.

11. Igniting the gas burner (Fig. 1)

1. Open gas cylinder or pressure regulating valve.
2. Turn knob (B) anti-clockwise to the MAX position, press and hold down.
3. After approximately 10 seconds press knob (E) several times. After ignition, hold down knob (B) for a further 20–30 seconds before releasing.

   The flame can be controlled by aperture (C).

   Should no ignition occur, repeat the ignition process after 1 minute.

   (This could take longer than 10 seconds if the unit has been out of operation for a prolonged period or after replacing the gas cylinder. Cause: air in the lines).

4. Once sufficient refrigeration has been obtained in the cooling tank at the MAX position, the control knob should be turned to the MIN position by low outside temperatures or when the refrigerator is only lightly loaded respectively the ambient temperature is below + 18° C, in order to avoid overfreezing the contents.

12. Shutting down gas operation

1. Close gas cylinder or pressure regulating valve.
2. Turn knob (B) clockwise to the off position*.

   * excluding units for the United Kingdom.

13. Food and drink storage

- Foodstuffs and drinks should always be sealed when stored in the cooling unit. Thus, changes in taste and smell are avoided.
- Food and drink should be so placed in the cooler so as to allow air to circulate freely.
- **Do not place hot food or drinks in the cooler!**
- **Under no circumstances should inflammable liquids and/or gases be stored in the cooler. Explosion hazard!**

14. Defrosting and measures for prolonged periods of disuse

A build up of too much ice on the evaporator hinders cooling of the unit and thus reduces effectiveness. When there is an approximately 5-mm-thick layer of ice build-up it is recommended to defrost the cooling unit. Thus, the cooling unit will be turned off and any goods to be cooled removed. Never use heated appliances, heaters, etc. to speed up the defrosting process! If necessary, a cloth dipped in warm water can be placed on the unit to help the defrosting process. After defrosting, clean up the defrosted water with a clean cloth and clean the cooler containers as described in chapter 4.

Should the unit be out of operation for a prolonged period, turn off unit and remove contents. After defrosting, the cooler should be cleaned carefully and dried.

To avoid the build-up of any unpleasant smells in the cooler, it is recommended to leave the lid slightly open.

15. Measures after prolonged periods of disuse

Should the cooling unit not function correctly when switched on after being out of operation for a prolonged period, SHUT OFF THE POWER SUPPLY AND DISCONNECT then turn the appliance upside down.

After a few minutes return the appliance to its upright position and switch on again. Should the unit still not fuction correctly, repeat the process several times.

16. Maintenance

Changing the gas filter: the celluiose gas filter is situated at the back in the gas connection piece. When it becomes necessary to replace the gas filter, remove the filter from the duct and replace it with a new one. Any other maintenance and repair works, especially those relating to the cooling aggregate and the gas-burner system, may only be undertaken by authorized customer service points.

17. After-sales service

Should a problem arise with the unit, please check the following before contacting customer service:

- is the unit suitably placed and is it well ventilated?
- is the unit placed on a flat surface?
- does the socket supply current?
- is the connecting cable damaged in any way?
- is there a loose connection?
- has the plug been properly plugged into the socket?
- has the electrothermostat been correctly adjusted?
- in the case of gas operation, has the safety pilot knob (regulator) been pressed down long enough?
- has the regulating knob been turned to the correct position?
- is the gas cylinder or pressure regulating valve open?
- does the liquid gas cylinder still contain gas? If no liquid movement is evident on shaking the cylinder, then the gas cylinder is empty.
- are several operating methods being used simultaneously?
- have warm foodstuffs been stored in the cooler?
- was a too large a quantity of food or drink stored at any one time? Food and drink should be so stored as to allow free air circulation. Do not use paper or plastic plates. Always keep containers for liquids sealed.

Indicate the type of defect, type of appliance, product number and serial number (on the type plate at the back of the unit).

We accept responsibility for the perfect condition of the unit, the guarantee being in accordance with our guarantee conditions.

18. Technical Data

Gas operation:	
Rated thermal loading:	134 W
Min. thermal loading:	99 W
Connected load, gas:	10,5 g/h
Connection pressure:	30 mbar
Categorie:	I_3, liquid gas
Climat class:	'N'
Electric operation:	
220 V – 240 V (mains) 50 Hz:	75W
12 V/24 V (car battery):	75W
Capacity:	3,5 Ltr.
Refrigerant:	0,24 kg. NH_3 Absorber

The refrigeration cycle has been checked for leaks.

This appliance complies with the following EEC directives:
LVD-Directive 73/23/EEC with amendment 90/683/EEC;
EMC-Directive 89/336/EEC;
Gas-Directive 90/396/EEC.

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